

## Regional HIV/AIDS Epidemiologic Profile of Middlesex County, Massachusetts: FY 2008

**Table 1. Total number of people reported with HIV infection or AIDS<sup>1</sup> by mortality status on December 31, 2007 Middlesex County, Massachusetts**

	N	%
People Living with HIV/AIDS	2,678	61%
People Reported with HIV or AIDS who are Deceased	1,706	39%
Total Number of People Reported with HIV Infection or AIDS	<b>4,384</b>	<b>100%</b>

<sup>1</sup> Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

**Table 2. Average annual rate of HIV infection diagnosis from 2004 to 2006 and rate of people living with HIV/AIDS on 12/31/07<sup>1</sup>: Middlesex County, Massachusetts**

Average annual HIV diagnosis rate from 2004–2006	Average Rate per 100,000	Average Number of HIV Diagnoses
Middlesex County, MA	11 per 100,000	154
Massachusetts Total	13 per 100,000	857
Rate of people living with HIV/AIDS on 12/31/07	Rate per 100,000	Number of People Living with HIV/AIDS
Middlesex County, MA	183 per 100,000	2,679
Massachusetts Total	267 per 100,000	16,977

<sup>1</sup> Population sizes for rate calculations are based on year 2000 population estimates from the MDPH Center for Health Information, Statistics, Research and Evaluation

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

**Table 3. People living with HIV/AIDS<sup>1</sup>, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year<sup>2</sup>: 1999–2006, Middlesex County, Massachusetts**

<b>Year</b>	<b>HIV/AIDS Prevalence</b>	<b>Deaths among those with HIV/AIDS</b>	<b>Diagnosis of HIV Infection</b>
1999	1,757	57	217
2000	1,889	51	183
2001	1,997	67	175
2002	2,126	44	173
2003	2,268	44	186
2004	2,392	41	165
2005	2,532	30	170
2006	2,622	37	127

<sup>1</sup> Number of People living with HIV/AIDS on 12/31 of each year

<sup>2</sup> Reflects year of diagnosis for HIV infection among all individuals reported with HIV infection, with or without an AIDS diagnosis  
Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

**Table 4. People diagnosed with HIV infection from 2004–2006<sup>1</sup> and people living with HIV/AIDS on December 31, 2007 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Middlesex County, Massachusetts**

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	319	69%	1,877	70%
Female	143	31%	802	30%
Place of Birth:	N	%	N	%
US	238	52%	1,552	58%
Puerto Rico/US Dependency <sup>2</sup>	17	4%	187	7%
Non-US	207	45%	940	35%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	192	42%	1,272	47%
Black (non-Hispanic)	166	36%	852	32%
Hispanic	80	17%	459	17%
Other/Undetermined <sup>3</sup>	24	5%	96	4%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	155	34%	956	36%
Injection Drug Use (IDU)	41	9%	437	16%
MSM/IDU	17	4%	83	3%
Heterosexual Sex	56	12%	334	12%
Other	3	1%	65	2%
Total Undetermined	190	41%	804	30%
• Presumed Heterosexual Sex <sup>4</sup>	127	27%	590	22%
• Undetermined <sup>5</sup>	63	14%	214	8%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2007	
Under 13	3	1%	14	1%
13 to 19	5	1%	27	1%
20 to 24	36	8%	35	1%
25 to 29	50	11%	103	4%
30 to 34	70	15%	202	8%
35 to 39	81	18%	383	14%
40 to 44	81	18%	600	22%
45 to 49	67	15%	530	20%
50 to 54	36	8%	375	14%
55 to 59	12	3%	197	7%
60+	21	5%	213	8%
<b>TOTAL</b>	<b>462</b>	<b>100%</b>	<b>2,679</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS

<sup>2</sup> Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

<sup>3</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

<sup>4</sup> Heterosexual sex with partners with unknown risk and HIV status

<sup>5</sup> Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up  
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 5. People living with HIV/AIDS on December 31, 2007 by gender and race/ethnicity: Middlesex County, Massachusetts**

Race/Ethnicity:	Male		Female	
	N	%	N	%
White Non-Hispanic	1,049	56%	223	28%
Black Non-Hispanic	424	23%	428	53%
Hispanic	336	18%	123	15%
Other/Undetermined <sup>1</sup>	68	4%	28	3%
<b>Total</b>	<b>1,877</b>	<b>100%</b>	<b>802</b>	<b>100%</b>

<sup>1</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 6. People living with HIV/AIDS on December 31, 2007 by gender and exposure mode: Middlesex County, Massachusetts**

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	956	51%	N/A	N/A
Injection drug use (IDU)	278	15%	159	20%
MSM/IDU	83	4%	N/A	N/A
Heterosexual sex	105	6%	229	29%
Other	35	2%	30	4%
Total Undetermined	420	22%	384	48%
• Presumed heterosexual sex <sup>1</sup>	275	15%	315	39%
• Undetermined <sup>2</sup>	145	8%	69	9%
<b>Total</b>	<b>1877</b>	<b>100%</b>	<b>802</b>	<b>100%</b>

<sup>1</sup> Heterosexual sex with partners with unknown risk and HIV status

<sup>2</sup> Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up; N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Middlesex County, Massachusetts, before 1999, 1999–2006<sup>1</sup>**

	Male		Female		Total
	N	%	N	%	
< 1999	2,276	78%	653	22%	<b>2,929</b>
1999	148	68%	69	32%	<b>217</b>
2000	123	67%	60	33%	<b>183</b>
2001	119	68%	56	32%	<b>175</b>
2002	106	61%	67	39%	<b>173</b>
2003	130	70%	56	30%	<b>186</b>
2004	111	67%	54	33%	<b>165</b>
2005	121	71%	49	29%	<b>170</b>
2006 <sup>2</sup>	87	69%	40	31%	<b>127</b>

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> 2006 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Middlesex County, Massachusetts, before 1999, 1999–2006<sup>1</sup>**

	White NH		Black NH		Hispanic		Other/ Undetermined <sup>2</sup>		Total
	N	%	N	%	N	%	N	%	
< 1999	1,864	64%	608	21%	417	14%	40	1%	<b>2,929</b>
1999	94	43%	81	37%	36	17%	6	3%	<b>217</b>
2000	81	44%	79	43%	18	10%	5	3%	<b>183</b>
2001	69	39%	59	34%	38	22%	9	5%	<b>175</b>
2002	67	39%	72	42%	22	13%	12	7%	<b>173</b>
2003	76	41%	68	37%	33	18%	9	5%	<b>186</b>
2004	66	40%	59	36%	27	16%	13	8%	<b>165</b>
2005	71	42%	67	39%	25	15%	7	4%	<b>170</b>
2006 <sup>3</sup>	55	43%	40	31%	28	22%	4	3%	<b>127</b>

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

<sup>3</sup> 2006 data are preliminary

NH = Non-Hispanic

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Middlesex County, Massachusetts, before 1999, 1999–2006<sup>1</sup>**

	US		Puerto Rico/ US Dependency <sup>2</sup>		Non-US		Total
	N	%	N	%	N	%	
< 1999	2,161	74%	237	8%	531	18%	<b>2,929</b>
1999	115	53%	19	9%	83	38%	<b>217</b>
2000	101	55%	11	6%	71	39%	<b>183</b>
2001	86	49%	12	7%	77	44%	<b>175</b>
2002	76	44%	5	3%	92	53%	<b>173</b>
2003	90	48%	10	5%	86	46%	<b>186</b>
2004	81	49%	7	4%	77	47%	<b>165</b>
2005	84	49%	5	3%	81	48%	<b>170</b>
2006 <sup>3</sup>	73	57%	5	4%	49	39%	<b>127</b>

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

<sup>3</sup> 2006 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Middlesex County, Massachusetts, before 1999, 1999–2006<sup>1</sup>**

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX <sup>2</sup>		Undeter- mined <sup>3</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
<1999	1,238	42%	732	25%	124	4%	276	9%	134	5%	294	10%	131	4%	<b>2,929</b>
1999	61	28%	48	22%	5	2%	22	10%	6	3%	62	29%	13	6%	<b>217</b>
2000	56	31%	23	13%	2	1%	29	16%	2	1%	58	32%	13	7%	<b>183</b>
2001	55	31%	21	12%	4	2%	28	16%	4	2%	45	26%	18	10%	<b>175</b>
2002	52	30%	15	9%	1	1%	31	18%	0	0%	57	33%	17	10%	<b>173</b>
2003	63	34%	17	9%	2	1%	21	11%	5	3%	47	25%	31	17%	<b>186</b>
2004	49	30%	13	8%	5	3%	23	14%	1	1%	44	27%	30	18%	<b>165</b>
2005	61	36%	15	9%	8	5%	20	12%	0	0%	48	28%	18	11%	<b>170</b>
2006 <sup>4</sup>	45	35%	13	10%	4	3%	13	10%	2	2%	35	28%	15	12%	<b>127</b>

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Heterosexual sex with partners with unknown risk and HIV status

<sup>3</sup> Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

<sup>4</sup> 2006 data are preliminary

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Middlesex County, Massachusetts, 1999–2006<sup>1</sup>**

	HIV and AIDS diagnosed within 2 months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within 2 months
Year:	N	N	%
1999	61	217	28%
2000	63	183	34%
2001	59	175	34%
2002	49	173	28%
2003	51	186	27%
2004	53	165	32%
2005	59	170	35%
2006	44	127	35%

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS  
Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

**Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Middlesex County, Massachusetts, 2004–2006<sup>1</sup>**

	HIV and AIDS diagnosed within 2 months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within 2 months
<b>Gender:</b>	<b>N</b>	<b>N</b>	<b>%</b>
Male	113	319	35%
Female	43	143	30%
<b>Race/Ethnicity:</b>	<b>N</b>	<b>N</b>	<b>%</b>
White (non-Hispanic)	57	192	30%
Black (non-Hispanic)	68	166	41%
Hispanic	25	80	31%
Other/Undetermined <sup>2</sup>	6	24	25%
<b>Place of Birth:</b>	<b>N</b>	<b>N</b>	<b>%</b>
US	65	238	27%
Puerto Rico/US Dependencies <sup>3</sup>	5	17	29%
Non-US	86	207	42%
<b>Total</b>	<b>156</b>	<b>462</b>	<b>34%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS

<sup>2</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

<sup>3</sup> Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08